

Title (en)

Open-cell foam of ethylene-propylene-diene rubber

Title (de)

Offenzelliger Schaumstoff aus Ehtylen-Propylen-Dienkautschuk

Title (fr)

Mousse de caoutchouc éthylène-propylène-diène à pores ouverts.

Publication

EP 1683827 A1 20060726 (EN)

Application

EP 05028270 A 20051222

Priority

JP 2004374404 A 20041224

Abstract (en)

Open-cell foam of ethylene-propylene-diene rubber that can convert to open-cell foams at the foaming of EPDM, rather than after the foaming of the same, and can produce low impact resiliency and improved filling capability. After 0.1-40 parts by weight of organic foaming agent, 2-40 parts by weight of inorganic foaming agent, and 2-40 parts by weight of foam auxiliary agent per 100 parts by weight of ethylene-propylene-diene rubber are mixed, the mixture is vulcanized and foamed to thereby produce open-cell foam of ethylene-propylene-diene rubber. This open-cell foam of ethylene-propylene-diene rubber has low impact resilience and good sealing performance so that it can be used as sealing materials of a variety of industrial products.

IPC 8 full level

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CPC (source: EP US)

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Citation (applicant)

JP 2003160685 A 20030603 - NITTO DENKO CORP

Citation (search report)

- [X] US 4164512 A 19790814 - BRENNER DOUGLAS [US], et al
- [A] EP 0794226 A1 19970910 - MITSUI PETROCHEMICAL IND [JP]
- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 14 31 December 1998 (1998-12-31)

Cited by

EP1964864A1; CN101824189A; US9321583B2; EP3388477B1

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